John C. Rutledge, M.D.

Clinical Interests John C. Rutledge is an expert in atherosclerosis and lipid disorders. He specializes in preventive cardiology, lipid disorders and reversal of atherosclerotic cardiovascular disease. His current laboratory research includes biology of the vascular wall.

Title Professor
Vice Chair of Research, Internal Medicine

Specialty Cardiology, Cardiovascular Medicine, Internal Medicine

Department Internal Medicine

Division Cardiovascular Medicine

Center/Program Affiliation Cardiovascular Services

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Education M.D., Baylor College of Medicine, Houston, Texas, 1976
B.A., University of Texas, Austin, Texas, 1972

Internships University of Tennessee, Memphis, Tennessee, 1976-77

Residency University of California, Davis, Medical Center, Sacramento, California, 1979-81

Fellowships University of California, Davis, Medical Center, Sacramento, California, 1981-83

Board Certifications American Board of Internal Medicine, 1983
American Board of Internal Medicine, Cardiovascular Disease, 1985

Professional Memberships American Association for the Advancement of Science
American College of Cardiology, Fellow
American College of Physicians
American Federation of Clinical Research
American Heart Association
American Heart Association, Fellow, Council on Arteriosclerosis, Thrombosis & Vascular Biology

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American Heart Association, Fellow, Council on Circulation
American Heart Association, Fellow, Council on Clinical Cardiology
California Heart Association

Honors and Awards

Chair, Graduate Group in Physiology, 1998
M.D.-Ph.D. Selection Committee, University of California, Davis, 1997
Chairman, Peer Review Committee; American Heart Association, Western States Affiliate, 1997
Associate Editor, Journal of Preventive Cardiovascular Medicine, 1997
Career Development Committee, Federation of American Society of Experimental Biology, 1996
Fellow, Council on Circulation; American Heart Association, 1996
Research Committee; American Heart Association, Western States Affiliate, 1996
Peer Review, National Institutes of health; Pathology A Study Section (October , 1996; June, 1997; February, 1998), 1994
Steering Committee, Physiology Graduate Group; University of California, Davis, 1994
Peer Review Committee; American heart Association, Western States Affiliate, 1994
Fellow, Council on Clinical Cardiology; American Heart Association, 1992
Fellow, Council on Arteriosclerosis and Thrombosis; American Heart Association, 1992

Select Recent Publications

2011 Sriram R, Lagerstedt JO, Petrlova J, Samardzic H, Kreutzer U, Xie H, Kaysen GA, Desreux JF, Thonon D, Jacques V, Van Loan M, Rutledge JC, Oda MN, Voss JC, Jue T. Imaging apolipoprotein AI in vivo. NMR in Biomedicine.

Armstrong AW, Voyles SV, Armstrong EJ, Fuller EN, Rutledge JC. A tale of two plaques: convergent mechanisms of T-cell-mediated inflammation in psoriasis and atherosclerosis. Experimental Dermatology, 2011;20(7): 544-549.

Armstrong AW, Voyles SV, Armstrong EJ, Fuller EN, Rutledge JC. Angiogenesis and oxidative stress: Common mechanisms linking psoriasis with atherosclerosis. Journal of Dermatological Science, 2011;63(1): 1-9. Publications 12

Ellis CL, Ma ZM, Mann SK, Li CS, Wu J, Knight TH, Yotter T, Hayes TL, Maniar AH, Troia-Cancio PV, Overman HA, Torok NJ, Albanese A, Rutledge JC, Miller CJ, Pollard RB, Asmuth DM. Molecular Characterization of Stool Microbiota in HIV-Infected Subjects by Panbacterial and Order-Level 16S Ribosomal DNA (rDNA) Quantification and Correlations with Immune Activation. Journal of Acquired Immune Deficiency Syndromes, 2011;57(5): 363-370.

Schie IW, Wu J, Weeks T, Zerns MA, Rutledge JC, Huser T. Labelfree imaging and analysis of the effects of lipolysis products on primary hepatocytes. Journal of Biophotonics, 2011;4(6): 425-434.

Weeks T, Schie I, den Hartigh LJ, Rutledge JC, Huser T. Lipid-cell interactions in human

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monocytes investigated by doubly-resonant coherent anti-Stokes Raman scattering microscopy. Journal of Biomedical Optics, 2011;16(2): 021117.

Villablanca AC, Pinkerton KE, Rutledge JC. Maternal and neonatal exposure to environmental tobacco smoke targets pro-inflammatory genes in neonatal arteries. Journal of Cardiovascular Translational Research 2010; 3(6): 696-703.

Ellis CL, Rutledge JC, Underwood MA. Intestinal microbiota and blue baby syndrome: Probiotic therapy for term neonates with cyanotic congenital heart disease. Gut Microbes, 2010;1(6): 359-366.

2008 JC Rutledge, T Huser, J Voss, A Parikh, J Chan: *Lifecycle of a Lipoprotein, Handbook of Biophysics*. ** IN PRESS **

2009 Higgins, L. J., J. C. Rutledge. Inflammation associated with the postprandial lipolysis of triglyceride-rich lipoproteins by lipoprotein lipase. *Current Atherosclerosis Reports*, 11. ** IN PRESS **

2009 Villablanca, A. C., A. Tenwolde, M. Lee, M. Huck, S. Mumenthaler, J. C. Rutledge. 17b-Estradiol prevents early-stage atherosclerosis in estrogen receptor-alpha deficient female-mice. *Journal of Cardiovascular Translational Research*, 2:289-299.

2009 Wang, L., R Gill, T. L. Pedersen, L. J. Higgins, J. W. Newman, J. C. Rutledge. Triglyceride-rich lipoprotein lipolysis releases neutral and oxidized FFAs that induce endothelial cell inflammation. *Journal of Lipid Research*, 50:204-213.

2008 Altman, R, D. D. Motton, and J. C. Rutledge. Inhibition of vascular inflammation by dehydroepiandrosterone sulfate in human aortic endothelial cells: Roles of PPARa and NF-K B. *Vascular Pharmacology*, 48:76-84.

2008 Schie, I. W., T. Weeks, G. P. McNerney, S. Fore, J. K. Sampson, S. Wachsmann-Hogiu, J. C. Rutledge, T. Huser. Simultaneous forward and epi-CARS microscopy with a single detector by time-correlated single photon counting. *Optics Express*, 16(3):2168-2175.

2008 Wang, L., A. R. Sapuri-Butti, H. H. Aung, A. N. Parikh and J. C. Rutledge. Triglyceride-rich lipoprotein lipolysis increases aggregation of endothelial cell membrane microdomains and produces reactive oxygen species. *American Journal of Physiology, Heart and Circulatory Physiology*, 295:H237-H244.

2007 Martin-McNulty, B., L. Zhang, V. da Cunha, J. Vincelette, J.C. Rutledge, R Vergona, M. E. Sullivan and X-Y. Wang. Urokinase-type plasminogen activator deficiency (uPA-KO) prevented carotid artery ligation-induced vascular remodeling in mice. *Translational Research*, 149:70-75.

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